

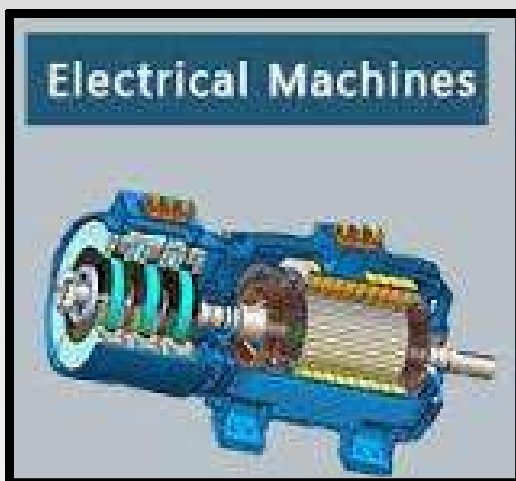
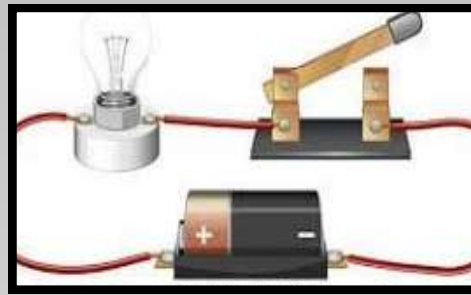


ELECTROBYTE-2023-2024

ELECTRICAL ENGINEERING DEPARTMENT

POLYTECHNIC,

THE MAHARAJA SAYAJIRAO UNIVERSITY OF BARODA



Departmental Committee

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**Mr. Hitesh Baria Head
of the Department**

Pratap Singh Gaekwad of Baroda (1908–1968) (the last Maharaja of the erstwhile Baroda State) founded The Maharaja Sayajirao University of Baroda in April 30, 1949 on the wishes of his grandfather, Maharaja Sayajirao Gaekwad III (1863–1939), and settled the Sir Sayajirao Diamond jubilee and Memorial Trust, which exists to date, catering to the education and other needs of the people of the former Baroda State. The Maharaja Sayajirao University of Baroda, a State University with English as its medium of instruction is a premier unitary residential University, established on 30th April, 1949 recognized by Government of India under the Indian Universities Act, 1958. The University has been assigned 'A' Grade by National Assessment and Accreditation Council with CGPA of 3.16 in the year 2016. It has one main and 6 satellite campuses, spread over 274.81 acres of land.



The University comprises of 111 Departments under the umbrella of 14 Faculties, 3 Constituent Colleges, 8 Institutes and 13 FTE, MSU Prospectus 2024-25 4 Centers of Specialized Studies, wherein more than 46,000 students pursue higher studies under the care and supervision of more than 1450 highly qualified and experienced teaching staff. The University has 16 Hostels, Health Centre, Sports Ground, Convocation Ground, Press and Stationery Unit, Guest House as well as other academic and administrative units spread across the campus. Besides, there are 9 Multipurpose Auditoriums, 8 well equipped Seminar Halls, 2 Open Air Theatres, an Amphitheatre, a Play Box, an Art Gallery, an Arboretum, a Botanical Garden, several lecture theatres and conference rooms. The University offers a wide range of academic programmes from early childhood to Under-Graduate and Post-Graduate levels including Ph.D., with Choice Based Credit System (CBCS) for students to select value added subjects of their interest, other than Grant-in-Aid academic programmes. The University also offers innovative Science and Technology programmes in the field of Cell and Molecular Biology, Nanotechnology, Petroleum Geology, Medical Biotechnology, Bioinformatics, Disaster Management, Embedded Systems, Packaging Engineering, Welding Technology etc through some cutting edge research centers like Centre for Biotechnology, Prof. Bharat Chattoo Genome Research Centre, Centre for Molecular Genetics, Cluster Innovation Centre, Centre for Excellence in Polymer and Siemens Centre of Excellence for industry automation. Other than that, a number of socially relevant job and knowledge oriented academic programmes are also on offer by the University like M.E. in Microelectronics & VLSI Design, Master of Urban and Regional Planning, Post-Graduate Diploma in Strategic Human Resource Management, P. G. Diploma in Food Service Management as well as Bachelor and Master of Design. University also offers Certificate Courses in Temple Management, Diet and Healthy Living, Sports Nutrition, Fitness Management, etc. The University interacts extensively with the Industry and the civil society in the curriculum development and updation process. The University has signed MOU's with International Universities/Institutes like University of Cambridge, University of Laval, University of Stuttgart, University of Cornell, Ithaca, University of South Carolina, Keio University etc. for the exchange of students and teachers which adds to the enrichment of curriculum from global perspective. Smt. Hansa Mehta Library is the Central Library in addition to 13 constituent libraries and 25 Departmental libraries with over 8 lakh books/periodicals and above 14000 digitized Dissertations/Theses. It has the single largest air-conditioned reading room which can accommodate about 1600 readers at a time and the library is open to the readers 14 hours a day. The MSU has one of the largest Hostel Campuses in western India with 12 Boys' and 4 Girls' Hostels with all modern amenities. Hostel admission is an online process from application to allotment of room to the students. The University Health Centre provides routine medical treatment to the students and staff of the University and has a physiotherapy unit, a Pathology Laboratory and Marg Counselling Centre. The University has a magnificent union pavilion overlooking a large ground with outdoor facilities like an athletic track, a cricket ground, hockey and football fields, two tennis courts, two basketball courts, four volleyball courts, two kabaddi grounds, malkhamb, a kho-kho ground, a handball court and a swimming pool. Indoor facilities include table tennis hall, badminton court, gymnasium and a multipurpose hall. The University has always been in a pioneering position in implementing the policy issues regarding education. It rose to the occasion during the recent pandemic by conducting a large number of on-line programmes and switching over to the online mode of teaching and evaluation successfully. The University organised numerous programmes to propagate the letter and spirit of the National Education Policy and has taken significant strides towards its effective implementation. All these aspects make The Maharaja Sayajirao University of Baroda one of the leading Institution in the area of Higher Education and Research.





The Department of Electrical Engineering, established in 1957, is one of the largest departments in the Faculty. The department runs Diploma (Electrical Engineering) course and two higher payment programs (Electronics & Communication and Computer Engineering).

Diploma (Electrical Engineering) course imparts knowledge of subjects like Electrical Power Engineering, Electrical Machines, Basic Electrical Engineering, Electrical Circuits & Networks, Analog Electronics, Digital Electronics, Power Electronics, Office Automation, Electrical Installation & Maintenance, Electrical Measuring Instruments, Electrical & Electronics Workshop, Microprocessor & Microcontroller, Electrical & Electronics Computer Aided Drawing, Embedded Systems, Electronic Instrumentation & Control, Electronic Communication Engineering, Switchgear and Protection, Energy Conservation & Audit etc.

Syllabi of all courses and course structures are regularly updated to incorporate the current state of the art technologies.

Major Laboratories and Equipment

The department has 15 well-equipped laboratories including Electrical Machines, Basic Electrical Engineering, Electrical Circuits & Networks, Analog Electronics, Digital Electronics, Power Electronics, Office Automation, Electrical Installation & Maintenance, Electrical Measuring Instruments, Electrical & Electronics Workshop, Microprocessor & Microcontroller, Electrical & Electronics Computer Aided Drawing, Embedded Systems, Electronic Instrumentation & Control, Electronic Communication Engineering etc.

The Computer labs are equipped with a total of 40 computers.

State of Art equipment like Function generators, CRO, Digital storage oscilloscope, Microprocessor & Microcontroller Kits etc. Specialized software like AutoCAD, MS Office, Keil, 8085 Simulator, Anaconda, Easy PC, Silicon Labs Studio, Step-7 etc. are available for Labs, research and students' project work.

Research and Sponsored projects

The Department has M.O.U. with L&T Power, Myrastica Pvt. Ltd. and Servilink PLC Automation for collaborative activities.

JOURNEY

1

Art

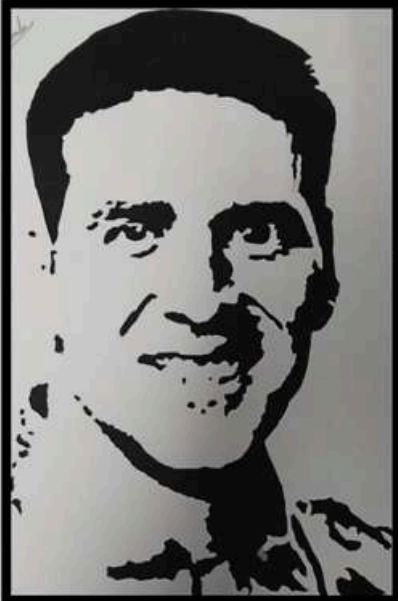
In the mindset of a chaotic schedule, I stumbled upon a forgotten sketchbook. Out of curiosity, I began doodling, and a spark ignited. Art became a secret escape, a world where you could express yourself freely. I started drawing for fun, without expectations or pressure.

As the month passed, my sketchbook became a trusted companion. I experimented with colours, shapes, and textures, uncovering a new language. Art seeped into my daily life, a constant source of comfort and joy. I began to share my artwork with close friends who encourage my creative pursuits.

My art evolved from a hobby to an emotional outlet. I started creating pieces that reflected my thoughts, feelings, and experiences. My art became a reflection of my inner world. Art had become an integral part of my identity. This understanding deepened my passion, and I began to share my artwork widely.

Now art has become an essential part of my life, a symphony of emotions, thoughts, and experience. It's my confidence, my solace, and my celebration. As I continue to create, I've come to understand that art is not just a hobby or a passion but an extension of myself - a reflection of my soul.





Name: Saiyed Taukeerali Mausufali

Class: F.Y Electrical Div:9

Year: 2023-24

Art

JOURNEY

The Art Journey of a Bhavan: A Path of Self-Discovery and Creativity

A bhavan's art journey is a transformative path that weaves together creativity, self-expression, and personal growth. From the earliest scribbles to mature masterpieces, this journey is marked by exploration, experimentation, and evolution. It is a story of imagination, inspiration, and dedication, as the girl navigates the twists and turns of artistic development.

In the beginning, the bhavan's art is raw and unbridled, a reflection of her innate curiosity and creativity. She experiments with colors, shapes, and textures, creating vibrant and dynamic pieces that burst with energy. As she grows, her art becomes a means of self-expression, a way to communicate emotions, thoughts, and experiences.

Through her art journey, the bhavan discovers her unique voice and style, influenced by her surroundings, culture, and personal experiences. She explores various mediums and techniques, from traditional painting and drawing to digital art and mixed media. Each new skill and discovery opens doors to fresh possibilities, allowing her to push boundaries and challenge herself.

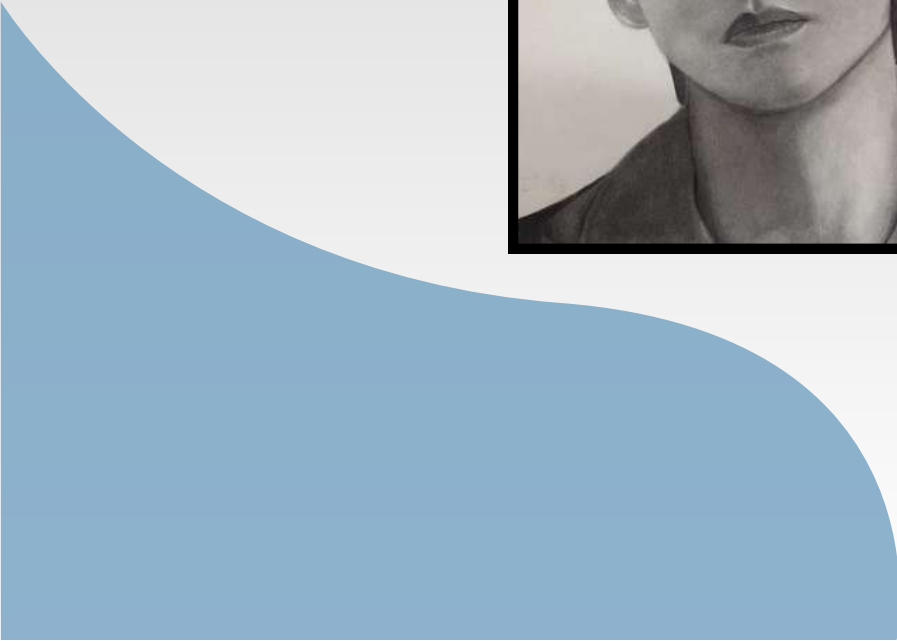
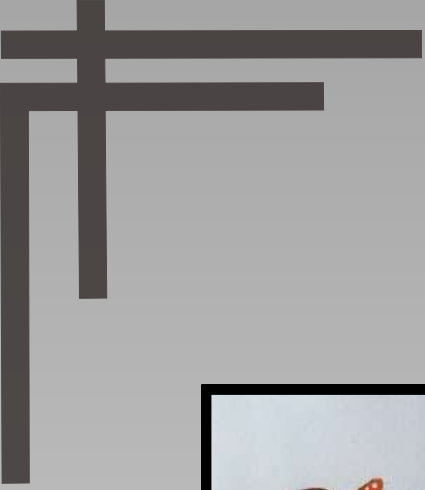
As she progresses, the bhavan's art becomes a reflection of her inner world, a window into her thoughts, feelings, and dreams. She learns to convey complex emotions and ideas through her art, developing a visual language that is both personal and universal. Her creations become a testament to her growth, resilience, and determination.

The art journey is not without its challenges and setbacks. The bhavan faces self-doubt, criticism, and uncertainty, but she perseveres, using these obstacles as opportunities for growth and learning. She develops a growth mindset, embracing failures and mistakes as stepping stones to success.

Throughout her journey, the bhavan finds inspiration in the world around her – nature, art, music, and literature. She draws upon these influences, integrating them into her unique vision and style. Her art becomes a fusion of imagination and reality, a celebration of life's beauty and complexity.

Ultimately, the bhavan's art journey is a path of self-discovery, a journey of becoming. Through her art, she finds her voice, her passion, and her purpose. She learns to see the world through the eyes of an artist, to appreciate the beauty in the mundane, and to find meaning in the creative process.

In the end, the bhavan's art journey is a testament to the transformative power of creativity and imagination. It is a reminder that art is a journey, not a destination – a journey of growth, exploration, and self-expression. As she continues to create, inspire, and evolve, her art becomes a legacy, a reflection of her spirit and her soul.



CRICKET

JOURNEY

I started playing cricket at the age of 10 at the Krugara Club in Vadodara, Gujarat. My passion and dedication quickly made me a standout player.

I honed my skills at the Krugara Club, learning from experienced coaches and seniors. I played in local tournaments, scoring runs and taking wickets.

Age 13: I got selected for the Baroda Cricket Association (BCA) Under-14 team, but unfortunately, the COVID-19 pandemic hit, and i couldn't join the team. Despite the setback, I still managed to play for 1 year in the U-14 category.

Age 14: While working out in the gym to improve my fitness, i suffered an ankle injury. This was a significant setback, forcing me to take a break from cricket for a few months. However, i didn't let this injury discourage me . I worked hard on my rehabilitation, focusing on strengthening my ankle and improving my overall fitness.

Age 15-16: I continued to impress, getting promoted to the BCA Under-19 team. I worked hard to catch up on lost time and quickly made a name for yourself in the U-19 circuit.

Match-winning performance:

In a crucial match of the U-19 tournament, i delivered a match-winning spell of 6/16 in 4 overs, helping our team win by a narrow margin. My bowling figures included 2 maidens and 6 wickets, including the opposition's top scorer. This performance earned me the "Man of the Match" award and recognition from the cricket fraternity.



Name: zeel varia

Class: F.Y Electrical

Div: 9

Year: 2023-2024

KABADDI

Journey

Early Beginnings

At the age of 15, I discovered your passion for Kabaddi, a popular contact team sport in India. I started playing and training rigorously, developing mine skills and physical fitness.

Chiteshthan Vyayam Sala Trust

I joined Chiteshthan Vyayam Sala Trust, a renowned training center for Kabaddi and other sports. Under the guidance of experienced coaches, I honed mine skills, learned new techniques, and improved your overall game.

Selection and Success

I hard work paid off when I got selected for the Chiteshthan Vyayam Sala Trust team. I represented I team in various tournaments, including zonal matches and state-level competitions.



Trophy Win

On 19th April 2023, I achieved a significant milestone by winning a trophy in a prestigious tournament. This victory showcased mine dedication, teamwork, and individual brilliance.

Additional Achievements

Apart from your trophy win, I participated in various other notable tournaments, such as:

- Khel Maha Kumbh
- Association matches
- Other local and regional competition



Name: Rana Jaymit Sanjay bhai

Class: F Y Electrical Div: 9

Year: 2023-2024

Fire extinguisher AWARENESS



Fire Extinguisher Awareness

Fire extinguishers are a crucial component of fire safety in any building, workplace, or home. They can help prevent small fires from becoming large, destructive blazes. However, to be effective, individuals must be aware of the proper use, types, and maintenance of fire extinguishers. This report highlights the importance of fire extinguisher awareness and provides recommendations for improvement .

Our faculty hitesh baria sir shree shital shinkhede ma'am pradeep kumar sir Ashok nakum sir guided us through this program and gave us important of fire safety equipments

Parking

MAINTENANCE



Field visit



Visit : Wanakbori power plant

***Date: 6/3/2024**

***Location:* Wanakbori, Gujarat, India**

Introduction:

The Wanakbori Power Plant is a thermal power station located in the Kheda district of Gujarat, India. The plant has an installed capacity of 1470 MW and is operated by the Gujarat State Electricity Corporation Limited (GSECL). Our team visited the plant on [Insert Date] to gain insights into its operations and infrastructure.

Observations:

- The plant has a total of seven units, with the first unit commissioned in 1981 and the latest unit in 2014.**
- The plant uses coal as its primary fuel source, with an average annual consumption of 6 million tons.**
 - We observed the boiler, turbine, and generator rooms, and were impressed by the scale and complexity of the equipment.**
 - The plant has implemented various pollution control measures, including electrostatic precipitators and flue gas desulfurization systems.**
- We also saw the control room, where operators monitor and control the plant's operations in real-time.**

Conclusion:

Our visit to the Wanakbori Power Plant was informative and insightful. We gained a deeper understanding of the plant's operations, infrastructure, and commitment to environmental sustainability. The plant's efficiency and productivity are a testament to the hard work and dedication of its employees.

Recommendations:

- Consider implementing renewable energy sources to reduce dependence on fossil fuels.**
- Explore opportunities for further pollution control measures to minimize environmental impact.**

Note: This is just a sample report, and you should modify it according to your specific visit and observations.



WELCOME

Days

First
YEAR



Second YEAR



Third YEAR



SOME PICTURES

of students with teachers



EDITING

BY

1) Saiyed Taukeerali Mausufali

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3) Varia Zeel

4) Lucky makvana

